

**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

02230028A

09/916,529

Applicant(s)  
Hayashi et al.

Filing Date

7-30-04

Group Art Unit

2652

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----|-----------------|------|------|-------|----------|-------------------------------|
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |

## U.S. PATENT APPLICATION PUBLICATIONS

| *EXAMINER<br>INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|-----|-----------------|------|------|-------|----------|-------------------------------|
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |
|                      |     |                 |      |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|    | REF | DOCUMENT NUMBER | DATE    | COUNTRY | CLASS    | SUBCLASS | Translation |    |
|----|-----|-----------------|---------|---------|----------|----------|-------------|----|
|    |     |                 |         |         |          |          | YES         | NO |
| WK | 1   | 2000-163716     | 6-16-00 | Japan   | abstract | only     | ✓           |    |
| WK | 2   | 11-232616       | 8-27-99 | Japan   | abstract | only     | ✓           |    |
| WK | 3   | 2000-040211     | 2-8-00  | Japan   | abstract | only     | ✓           |    |
| WK | 4   | 11-213355       | 8-6-99  | Japan   | abstract | only     | ✓           |    |
| WK | 5   | 5-94605         | 4-16-93 | Japan   | abstract | only     | ✓           |    |

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

|    |   |   |  |  |  |  |  |
|----|---|---|--|--|--|--|--|
| WK | 1 | Japanese Office dated October 26, 2004 with English translation of pertinent portions |  |  |  |  |  |
|    |   |   |  |  |  |  |  |
|    |   |   |  |  |  |  |  |

EXAMINER

DATE CONSIDERED

12-10-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)

02230028

09/916,529

Applicant(s)

Hayashi et al.

Filing Date

7-30-04

Group Art Unit

2652

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | REF | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----|--------------------|------|------|-------|----------|-------------------------------|
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |

**U.S. PATENT APPLICATION PUBLICATIONS**

| EXAMINER<br>INITIAL | REF | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----|--------------------|------|------|-------|----------|-------------------------------|
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |
|                     |     |                    |      |      |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|    | REF | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS    | SUBCLASS | Translation |    |
|----|-----|--------------------|---------|---------|----------|----------|-------------|----|
|    |     |                    |         |         |          |          | YES         | NO |
| Wk | 6   | 11-134620          | 5-21-99 | Japan   | abstract | only     | ✓           |    |
|    |     |                    |         |         |          |          |             |    |
|    |     |                    |         |         |          |          |             |    |
|    |     |                    |         |         |          |          |             |    |
|    |     |                    |         |         |          |          |             |    |
|    |     |                    |         |         |          |          |             |    |
|    |     |                    |         |         |          |          |             |    |

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

EXAMINER

Wk KH

DATE CONSIDERED

12-10-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.